

# Wide angle full cone spray nozzles

# ZSW SERIES

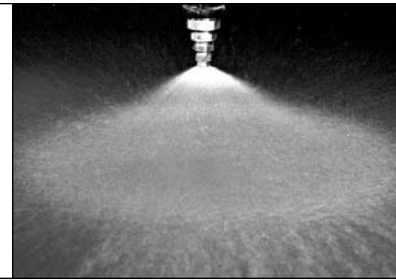
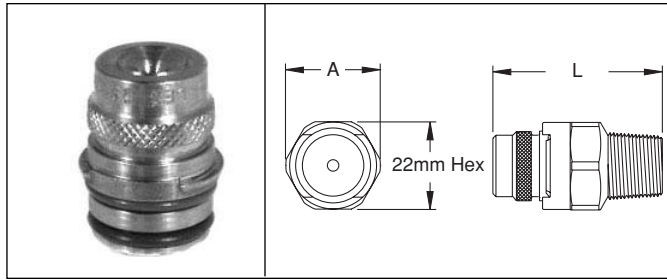
## TYPICAL APPLICATIONS:

Anywhere a wide angle full cone spray is required:

- Chemical Processing
- Cooling Sprays
- Continuous Casting

U.S. Patent No. 4,142,682

Canadian Patent No. 1,050,589



## SPRAY CHARACTERISTICS:

A wide angle full cone spray pattern, with uniform distribution throughout the cone.

## CONSTRUCTION:

This nozzle tip contains a patented insert with larger flow passages than older styles, and is

less susceptible to clogging. Standard materials are brass, 303 stainless steel and 316 stainless steel.

Please see page 40 for body styles and adapters.

## ZSW SERIES

One piece body + removable insert



## DIMENSIONS

NOZZLE BSPT PIPE SIZE	Length L (mm)	Dim. A (mm)
1/8 ZSW	41	25
1/4 ZSW	43	25
3/8 ZSW	44	25
1/2 ZSW	46	25
3/4 ZLSW	54	32
1/2 ZLSW	56	32

## ZGSW SERIES

Two piece body + removable insert



## DIMENSIONS

NOZZLE BSPT PIPE SIZE	Length L (mm)	Dim. A (mm)
1/8 ZGSW	50	25
1/4 ZGSW	54	25
3/8 ZGSW	65	25
1/2 ZGSW	67	28
3/4 ZLGSW	71	32
1/2 ZLGSW	73	32

## ZHGSW SERIES

Two piece body + removable insert



## DIMENSIONS

NOZZLE BSPT PIPE SIZE	Length L (mm)	Dim. A (mm)
1/8 ZHGSW	54	25
1/4 ZHGSW	56	25
3/8 ZHGSW	57	25
1/2 ZHGSW	59	25
3/4 ZHGSW	75	32
1/2 ZHGSW	77	32

'ZSW' one piece tip	'ZGSW' two piece tip		'ZHGSW' Right Angle two piece tip		MAXIMUM FREE PASSAGE (mm)	CAPACITY (L/min) AT VARIOUS PRESSURES (bar)												Spray Angle @		
	ZGSW	ZLGSW	ZHGSW	ZLHGSW		0.3 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	8 bar	0.5 bar	1.5 bar	5 bar	
ZS2.8W	ZGS2.8W		ZHGS2.8W		1.30	--	0.90	1.07	1.28	1.56	1.80	2.21	2.55	2.85	3.13	3.6	110°	105°	96°	
ZS4.3W	ZGS4.3W		ZHGS4.3W		1.30	--	1.39	1.64	1.96	2.40	2.77	3.4	3.9	4.4	4.8	5.5	117°	108°	100°	
ZS5.6W	ZGS5.6W		ZHGS5.6W		1.63	--	1.80	2.14	2.55	3.13	3.6	4.4	5.1	5.7	6.3	7.2	117°	110°	100°	
ZS8W	ZGS8W		ZHGS8W		2.06	2.00	2.58	3.05	3.6	4.5	5.2	6.3	7.3	8.2	8.9	10.3	118°	110°	103°	
ZS10W	ZGS10W		ZHGS10W		2.31	2.50	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.9	118°	108°	102°	
ZS12W	ZGS12W		ZHGS12W		2.31	3.00	3.9	4.6	5.5	6.7	7.7	9.5	10.9	12.2	13.4	15.5	120°	112°	102°	
ZS14W	ZGS14W		ZHGS14W		2.31	3.5	4.5	5.3	6.4	7.8	9.0	11.1	12.8	14.3	15.6	18.0	118°	114°	104°	
ZS17W	ZGS17W		ZHGS17W		2.59	4.2	5.5	6.5	7.7	9.5	11.0	13.4	15.5	17.3	19.0	21.9	118°	117°	102°	
ZS20W	ZGS20W		ZHGS20W		2.59	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20.4	22.3	25.8	120°	120°	106°	
ZS24W	ZGS24W		ZHGS24W		2.59	6.0	7.7	9.2	10.9	13.4	15.5	18.9	21.9	24.5	26.8	30.9	122°	118°	106°	
ZS27W	ZGS27W		ZHGS27W		2.59	6.7	8.7	10.3	12.3	15.1	17.4	21.3	24.6	27.5	30.1	35	122°	120°	107°	
	ZLS30W	ZLGS30W		ZLHGS30W	3.66	7.5	9.7	11.4	13.7	16.7	19.3	23.7	27.3	30.6	33	39	120°	118°	110°	
	ZLS35W	ZLGS35W		ZLHGS35W	3.66	8.7	11.3	13.3	16.0	19.5	22.6	27.6	32	36	39	45	122°	118°	108°	
	ZLS40W	ZLGS40W		ZLHGS40W	4.11	10.0	12.9	15.3	18.2	22.3	25.8	32	36	41	45	52	122°	119°	104°	
	ZLS45W	ZLGS45W		ZLHGS45W	4.11	11.2	14.5	17.2	20.5	25.1	29.0	36	41	46	50	58	141°	118°	108°	